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	Application No.	Applicant(s)	
Nacional Allertic Edit	10/803,298	KLEINE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Anjan K. Deb	2858	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REOF THE OF THE O	(OR REMAINS) CLOSED in this applior other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to <u>10/24/2005</u> .			
2. The allowed claim(s) is/are <u>1-26</u> .			
 3. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No		tion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the second sheet.	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawir he header according to 37 CFR 1.121(Office action of ngs in the front (not the d).	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. N AL MATERIAL.	Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Proffnerson's Retent Proving Review (PTO 948)	5. Notice of Informal P	• •	O-152)
 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendr 8. ☑ Examiner's Stateme 9. ☐ Other	te nent/Comment	

1. This office action is in response to amendment filed 10/24/2005.

Allowable Subject Matter

2. Claims 1-26 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The claims in the application are deemed to be directed to a nonobvious improvement over the invention patented in US 5,223,830 A. While US 5,223,830 A disclosed measuring distance comprising two input signals (U1, U2) from sensor outputs are applied to first and second amplifier circuits it did not expressly disclose amplifiers comprise switched capacitors (SC) so as to form the claimed SC network for generating a measurement output signal that is dependent on a temperature influence (Fig. 1). US Patent # 5,281,860 A disclosed method and apparatus for an improved multiple channel sensor interface wherein at least two input signals are applied to SC network comprising first 9 and second 11 switched capacitor amplifiers connected to a third 15 switched capacitor amplifier for generating a measurement signal Vout (Fig. 1). US Patent # 5,281,860 A did not disclose measuring distance wherein the input signals are applied to the inputs of a measuring coil. In the examiner's opinion, it would not have been obvious to a person of ordinary skill in the art to combine the sensor interface circuit

Art Unit: 2858

comprising switched capacitor network disclosed in US Patent # 5,281,860 A with the distance measuring circuit disclosed in US 5,223,830 A to arrive at the claimed invention.

Page 3

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weigand (US 4,731,591) disclose sensor for measuring distance comprising two input signals (L+, L-) applied to coil 14 (inductive proximity switch) and switched capacitor 16 (Figure).

Kawagoe (US 5,712,563) disclose displacement sensor comprising power source, detection coil 2 producing two output signals (Vs1, Vs2) applied to deviation measurement circuit (Fig. 1,2, 13).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If Art Unit: 2858

attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached at 571-272-2399.

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Art Unit: 2858

12/29/05